

Q1
said engine, planetary gears drivenly engaged with said sun gear, said planetary gears continuously rotating about said sun gear when said sun gear is driven by said first shaft means, and second shaft means including means engaged with said planetary gears, said second shaft means being driven by said planetary gears, said second shaft means driving said endless drive track.

Sub 6
C2
12. (Once Amended) A snowmobile comprising:
a frame having a forward portion and a rear portion, said frame including a pair of skis supporting said forward portion and an endless drive track supporting said rear portion, an engine supported in said frame, a drive train connected to said engine and to said endless drive track, said drive train including a reduction drive comprising a planetary gear system, said planetary drive system including a first shaft means and a sun gear driven by said first shaft means, said first shaft means being driven by said engine, planetary gears drivenly engaged with said sun gear, said planetary gears continuously rotating about said sun gear when said sun gear is driven by said first shaft means, and second shaft means including ring gear means engaged with said planetary gears, said second shaft means driving said endless drive track.

Sub 6
C3
21. (Once Amended) A snowmobile including
an engine with a drive shaft;
an endless track;
an endless track shaft positioned within the endless track that drives the endless track;
a planetary gear system interconnecting said engine drive shaft and said endless track shaft, said planetary gear system including a sun gear driven by said engine drive shaft, planetary gears driven by said sun gear, and a ring gear engaging said planetary gears and being fixed relative to said sun gear and said planetary gears.

A3 22. (Once Amended) The snowmobile of claim 21 wherein said planetary gears serve to provide driving power from said sun gear to said ring gear.

23. (Once Amended) The snowmobile of claim 22 wherein said sun gear is integrally mounted on said engine drive shaft.

28. (Once Amended) A snowmobile comprising:
a frame having a forward portion and a rear portion, said frame including a pair of skis supporting said forward portion and an endless drive track supporting said rear portion, an engine supported in said frame, a drive train connected to said engine and to said endless drive track, said drive train including a primary clutch, a secondary clutch and a planetary gear system, said primary clutch and said secondary clutch being interconnected by a belt, said planetary drive system including a first shaft means and a sun gear driven by said first shaft means, said first shaft means being driven by said engine through said primary clutch, said belt, and said secondary clutch, said planetary gears being drivenly engaged with said sun gear, said planetary gears continuously rotating about said sun gear when said sun gear is driven by said first shaft means, and second shaft means including means engaged with said planetary gears, said second shaft means being driven by said planetary gears, said second shaft means driving said endless drive track.

34. (Once Amended) A snowmobile comprising:
a frame having a forward portion and a rear portion, said frame including a pair of skis supporting said forward portion and an endless drive track supporting said rear portion, an engine supported in said frame, a drive train connected to said engine and to said endless drive track, said drive train including a clutch system, said clutch system including a reduction drive

comprising a planetary gear system, said planetary drive system including a first shaft means and a sun gear driven by said first shaft means, said first shaft means being directly driven by said engine, planetary gears drivenly engaged with said sun gear, and second shaft means including ring gear means engaged with said planetary gears, said ring gear being fixed relative to said sun gear and said planetary gears; primary clutch means driven by said second shaft means, secondary clutch means and belt means providing driving engagement between said primary clutch means and said secondary clutch means, said secondary clutch means serving to drive said endless track.

36. (Once Amended) A snowmobile comprising:

a frame having a forward portion and a rear portion, said frame including a pair of skis supporting said forward portion and an endless drive track supporting said rear portion, an engine supported in said frame, a drive train connected to said engine and to said endless drive track, said drive train including a planetary gear system, primary clutch and a secondary clutch, said primary clutch and said secondary clutch being interconnected by a belt, said planetary drive system including a first shaft means and a sun gear driven by said first shaft means, said first shaft means being driven by said engine, said planetary gears being drivenly engaged with said sun gear, said planetary gears continuously rotating about said sun gear when said sun gear is driven by said first shaft means, and second shaft means including means engaged with said planetary gears, said second shaft means being driven by said planetary gears, said second shaft means driving said endless drive track through said primary clutch and said secondary clutch.

39. (Once Amended) A snowmobile comprising:

(a) a frame having a forward portion and a rear portion, said frame including a ski supporting said forward portion, and said frame including an endless drive track;

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- (b) an engine supported in said frame;
 - (c) a drive train connected to said engine and to said drive track, wherein said drive train comprises:
 - (i) an engine drive shaft capable of being rotated by the engine, the engine drive shaft having a first longitudinal axis;
 - (ii) a track shaft having a second longitudinal axis;
 - (iii) a sprocket coupled to the track shaft wherein rotation of the track shaft causes rotation of the sprocket, and wherein the sprocket drives the endless drive track;
 - (iv) a continuously variable transmission connecting the engine drive shaft to the track shaft wherein the engine drive shaft drives the track shaft through the continuously variable transmission; and
 - (v) a planetary gear system having an input shaft and a second shaft, wherein the engine drive shaft drives the input shaft and the second shaft drives the track shaft, wherein the input shaft and the second shaft are coaxial with the second longitudinal axis, wherein there exists a gear reduction from the input shaft to the second shaft.

Sub 4
AS 42. (Once Amended) The snowmobile according to claim 39, wherein the input shaft is connected to and driven by the continuously variable transmission, and wherein the second shaft is connected to and drives the track shaft.

Sub 4
AS 45. (Once Amended) A snowmobile comprising:

- (a) a frame having a forward portion and a rear portion, said frame including a ski supporting said forward portion, and said frame including an endless drive track;
- (b) an engine supported in said frame; and

(c) a drive train connected to said engine and to said endless drive track, wherein said drive train comprises:

ag (i) a planetary gear system including a input shaft and a second shaft coaxial with the input shaft, wherein the input shaft is driven by the engine and the second shaft is driven by the input shaft with a gear reduction from the input shaft to the second shaft; and

(ii) a sprocket that rotates about an axis of a endless track drive shaft positioned within the endless track, wherein the sprocket is coaxially connected to and driven by the second shaft, and wherein the sprocket drives the endless drive track.
